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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/695,332		10/25/2000	Michael O. Okoroafor	1555P1 1488	
24959	7590	06/17/2004		EXAMINER	
PPG INDU	-		SERGENT, RABON A		
INTELLEC ONE PPG F		ROPERTY DEPT	ART UNIT	PAPER NUMBER	
PITTSBUR	GH, PA	15272		1711	
				DATE MAILED: 06/17/200-	1

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		App	lication No.	Applicant(s)					
Office Action Summary			695,332	OKOROAFOR E	ΤΔΙ				
			miner	Art Unit	T				
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The I	MAILING DATE of this commu		on Sergent	with the correspondence a	ddress				
Period for Repl									
THE MAILIN - Extensions of tafter SIX (6) M - If the period for - If NO period for - Faiture to reply Any reply recei	NED STATUTORY PERIOD F IG DATE OF THIS COMMUN ime may be available under the provision ONTHS from the mailing date of this com reply specified above is less than thirty (reply is specified above, the maximum so within the set or extended period for repl yed by the Office later than three months term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In munication. 30) days, a reply within thatutory period will apply y will, by statute, cause to	n no event, however, may the statutory minimum of y and will expire SIX (6) M the application to become	r a reply be timely filed thirty (30) days will be considered time IONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).					
Status									
1) Respo	nsive to communication(s) fil	ed on 14 April 20	04.						
·	• •	2b) This action							
3) Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of (Claims								
4) Claim(☑ Claim(s) <u>1-119</u> is/are pending in the application.								
4a) Of	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(☐ Claim(s) <u>69-81,87-116 and 119</u> is/are allowed.								
6)⊠ Claim(Claim(s) 1-4, 6, 11, 14-33, 35-38, 40, 45, 46, 49-67, 82-86, 117, and 118 is/are rejected.								
	Claim(s) <u>5,7-10,12,13,34,39,41-44,47,48 and 68</u> is/are objected to.								
8) Claim(s) are subject to restri	ction and/or elect	tion requirement.						
Application Par	pers								
9)∐ The sp	ecification is objected to by th	e Examiner.							
10)∏ The dra) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applica	int may not request that any obje	ection to the drawin	g(s) be held in abey	ance. See 37 CFR 1.85(a).					
Replac	ement drawing sheet(s) including	g the correction is r	equired if the drawi	ng(s) is objected to. See 37 C	FR 1.121(d).				
11)☐ The oa	th or declaration is objected t	o by the Examine	er. Note the attach	ed Office Action or form P	TO-152.				
Priority under 3	5 U.S.C. § 119								
a)	viedgment is made of a claim b) Some * c) None of: Certified copies of the priority Certified copies of the priority Copies of the certified copies application from the Internation	documents have documents have of the priority do	e been received. e been received in cuments have bee	Application No	l Stage				
* See the	attached detailed Office action	on for a list of the	certified copies n	ot received.					
Attachment(s)			_						
	rences Cited (PTO-892) tsperson's Patent Drawing Review (F	OTO 048)		v Summary (PTO-413) o(s)/Mail Date					
3) 🔲 Information Di	sperson's Patent Drawing Review () sclosure Statement(s) (PTO-1449 or lail Date			f Informal Patent Application (PT	O-152)				

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 14, 2004 has been entered.

- 2. Applicants' amendment of April 14, 2004 fails to comply with the provisions of 37 CFR 1.121, because the incorrect status identifier has been used within claim 45.
- 3. Claims 82-86 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Dependent claims 82-86 are improperly drawn to methods and polymerizates; the claims from which they depend are drawn to photochromic articles.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

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claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-4, 6, 11, 14-16, 21-23, 26-32, 35-38, 40, 45, 46, 49, 50, 55-57, 60-65, 67, 117, and 118 are rejected under 35 U.S.C. 102(b) as being anticipated by Cassidy et al. ('103).

Patentees disclose polythiourethane derived from the reaction of a curing agent amine and an isocyanate terminated prepolymer, wherein the prepolymer is derived from the reaction of a polythiol and a polyisocyanate. See abstract, columns 2-4, and columns 9-12.

6. Claims 17-20, 24, 25, 33, 51-54, 58, 59, and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cassidy et al. ('103).

As aforementioned, patentees disclose polythiourethane derived from the reaction of a curing agent amine and an isocyanate terminated prepolymer, wherein the prepolymer is derived from the reaction of a polythiol and a polyisocyanate.

7. Patentees are silent regarding applicants' amines of claims 17-20 and 51-54, the claimed degassing steps of claims 24, 25, 58, and 59, and the claimed mold release agent of claims 33 and 66. With respect to the claimed amine issue, the position is taken that the claimed amines were well known, conventional curing agents for polyurethane prepolymers at the time of invention; therefore, it would have been obvious to utilize them in their art recognized capacity as curing agents within Cassidy et al. With respect to the degassing step issue, the position is taken that the degassing of polymer forming reactants, prior to their reaction, was a conventional

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operation at the time of invention. Since it was well known that degassing serves to remove deleterious bubbles from the reactants, the position is taken that it would have been obvious to perform such an operation on the reactants of Cassidy et al. With respect to the mold release agent issue, the position is taken that the claimed phosphate esters were conventional mold release agents at the time of invention and that it would have been obvious to utilize them within Cassidy et al. for their art recognized function, since Cassidy et al. disclose the use of mold release agents at column 10.

8. Claims 5, 7-10, 12, 13, 34, 39, 41-44, 47, 48, and 68 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication should be directed to Rabon Sergent at telephone number (571) 272-1079.

RABON SERGENT

R. Sergent

June 14, 2004